OBJAN '91 . B

NEUROTOXICOLOGY II (cont)

Abstract

504 (P63) Mechanisms of styrene neurotoxicity. A study in PC 12 cells
P Nicotera, H Thor, L Costa & L Manzo (Stockholm, Sweden; Seattle, USA; Pavia, Italy)

MOLECULAR BIOLOGY AND ENZYMOLOGY OF XENOBIOTIC METABOLISM (Abstracts 505-527)

Chairmen: G Powis (Rochester, USA) and M Pasanen (Oulu, Finland)

Posters will be diplayed in the Hewison Hall. The Discussion Group will be held in the Buckingham Room, Metropole Hotel

505 (P68) ✓ Metabolism of benzene (B) by human, rat and mouse liver cell preparations *in vitro*
G Powis & J Brodfuehrer (Rochester, USA)

506 (P69) Role of hepatic glucuronidation in detoxication of benzene: effects of enzyme inducers
D Schrenk & K W Bock (Tubingen, FRG)

507 (P70) Metronidazole as a probe for xenobiotic metabolism in the rat
S Loft & H E Poulsen (Copenhagen, Denmark)

508 (P71) Comparison of UDP glucuronosyltransferase (UDPGT) activities in rat hepatocytes and homogenates
M P Pritchard & G M Hawksworth (Aberdeen, UK)

509 (P72) On the conjugation of hydroxylated phenanthrenes by rat liver UDP-glucuronyltransferase forms
C Augustin, A Schmoldt, L v Meyenndk, J Jacob & G Grimmer (Hamburg, FRG)

510 (P73) Species differences in the hepatic response to peroxisome proliferators: identification of susceptible and non-susceptible species
J Makowska, F W Bonner & G Gibson (Guildford & Alnwick, UK)

511 (P74) Effects of exogenous putrescine on microsomal membrane fluidity in cholestatic rat liver
Y Aoki, K Mitsuta & H Itoh (Sagamihara & Tokyo, Japan)

512 (P75) Debrisoquine oxidation in bladder cancer
J Benitez, J M Ladero, M J Fernandez, A Llerena, J Cobaleda, C Martinez, J J Muñoz, E Vargas, J Prados, F Gonzalez, J Rodriguez & A Uson (Badajoz & Madrid, Spain)

513 (P76) Phosphorylation of carcinogen metabolising enzymes: regulation of phosphorylation of phenobarbitone inducible cytochromes P450 and functional consequences
B Bartlomowicz, T Friedberg & F Oesch (Mainz, FRG)

514 (P77) Hepatic drug metabolising enzymes in mice bearing the gene for human growth hormone (hGH)
P A Cossum & M R Franklin (San Francisco & Salt Lake City, USA)

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MOLECULAR BIOLOGY AND ENZYMOLOGY OF XENOBIOTIC METABOLISM (cont)

Abstract

515 ✓(P78) **Purification and characterisation of novel acidic glutathione *S*-transferases from rat liver**
J Guth, H Thomas, T Igarashi & F Oesch (Mainz, FRG)

516 (P79) **Evidence for several hepatic proteins related to microsomal epoxide hydrolase**
T Friedberg, H Thomas, C Timms & F Oesch (Mainz, FRG)

517 (P80) **Detergent activation of human hepatic UDP-glucuronosyltransferases**
G Cameron & G M Hawksworth (Aberdeen, UK)

518 (P81) **Immunochemical characterisation of cytochrome P450 isozymes responsible for benzene oxidation in the rat liver**
T Nakajima, E Elovaara, S S Park, H V Gelboin, E Hietanen & H Vainio (Helsinki, Finland)

519 (P82) **Importance of cytochrome P450j (P450IIE1) in the styrene metabolism of rats**
E Elovaara, T Takajima, K Engström & H Vainio (Helsinki, Finland & Matsumoto, Japan)

520 (P83) **Developmental changes in the expression and inducibility of cytochromes P450c and P450d in rat liver**
K J Rich, R J Edwards, A M Singleton, J R Foster, D S Davies & A R Boobis (London & Macclesfield, UK)

521 (P84) **Expression of P450IA1 gene in the human placenta**
M Pasanen, H Raunio, P Sivonen, K Vahakangas & O Pelkonen (Oulu, Finland)

522 (P85) **Characterisation of the binding site of an anti-peptide antibody specific to rat cytochrome P450d**
A M Singleton, R J Edwards, A R Boobis & D S Davies (London, UK)

523 (P86) **Studies of the tertiary structure of mammalian cytochromes P450 using anti-peptide antibodies**
R J Edwards, B P Murray, A M Singleton, A R Boobis & D S Davies (London, UK)

524 (P87) **A characterised P450IIB gene is expressed at high levels in sebaceous glands but not in the liver**
T Friedberg, B Bartlomowicz & F Oesch (Mainz, FRG)

525 (P88) **Isolation of a human liver cDNA showing homology with the human glutathione peroxidase gene**
D K Dunn, D D Howells, J P Richardson & P S Goldfarb (Guildford, UK)

526 (P89) **Characterisation of the catalytic site peptides of rat liver microsomal epoxide hydrolase**
S Elsberg, H Thomas & F Oesch (Mainz, FRG)

527 (P90) **Production of an antibody against cytochrome P450j by immunising with a synthetic peptide**
G Hasheminejad, R J Edwards, A M Singleton, D S Davies & A R Boobis (London, UK)

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HEAVY METALS (Abstracts 528-562)

Chairmen: P Grandjean (Odense, Denmark) and E J Massaro (Research Triangle Park, USA)

Posters will be displayed in the Hawthorn Hall. The Discussion Group will be held in the Empress Room, Grand Hotel

528 (P91) **Delayed blood regeneration after phlebotomy in lead-exposed workers**
P Grandjean, B M Jensen, S H Sando, P J Jørgensen & S Antonsen (Odense, Denmark)

529 (P92) **Flow cytometric and cytologic analysis of methylmercury cytotoxicity**
E J Massaro, R M Zucker, K H Elstein & R E Easterling (Research Triangle Park, USA)

530 (P93) **Chelation in acute oral cadmium intoxication**
O Andersen & J Nielsen (Odense, Denmark)

531 (P94) **Methylmercury distribution, excretion and demethylation in hamsters**
K Petersson, L Dock & M Vahter (Stockholm, Sweden)

532 (P95) **The effect of chronic lead poisoning on blood level of zinc, copper, magnesium and calcium**
A Hedili, L N Slim, M Souguir, R Roudesli, S Beh Naceur, F Ben Charnia, N Ben Salah, M Antanou & M Yacoub (Tunis, Tunisia)

533 ✓ (P96) **Effect of topical application of zinc on metallothionein synthesis in the rat**
U Wormser, S Ben Zakine (Jerusalem, Israel)

534 (P97) **Heavy metals in consumable beef tissues**
H Tsoukali-Papadopoulou, B Antoniou, N Zantopoulos, B Nathanael & F Epivatianos (Thessaloniki, Greece)

535 (P98) **Blood lead level distribution by age group in inhabitants of Ankara**
G Güvenalp & N Vural (Ankara, Turkey)

536 (P99) **Absorption of orally administered mercuric chloride in mice**
J Nielsen & O Andersen (Odense, Denmark)

537 (P100) **Withdrawn**

538 (P101) **Interactions of humic acids with heavy metals and sulphonamides**
M Kuhnert, N Lange, V Fuchs, S Golbs & W Gaede (Leipzig, GDR)

539 (P102) **Provocation of nickel allergic patients with hand eczema with a diet naturally high in nickel**
G D Nielsen, L V Jepsen, J Gram, P Grandjean & F Brandrup (Odense, Denmark)

540 (P103) **Influence of age on toxic element level in human hair from patients and industrial workers**
R Subramanian & A Sukumar (New Delhi, India)

541 (P104) **The effect of aluminum loading on liver, kidney and spleen of mice**
Ş Duru, I Varol, A Temizer, G Sahin, K Benli & R Sunal (Ankara, Turkey)

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HEAVY METALS (cont)

Abstract

542 (P105) Response of blood lead and zinc protoporphyrin to EDTA treatment by a calf with subacute lead intoxication
A Wijbenga (The Hague, The Netherlands)

543 (P106) The effect of glucocorticoid treatment on metal retention in suckling rats
B Kargačin, K Kostial & M Landeka (Zagreb, Yugoslavia)

544 (P107) Tolerance against cadmium toxicity - role of changes in cellular *Cd*-transport and metallothionein induction in rats
G Nordberg & T Jin (Umeå, Sweden)

545 (P108) Effect of dietary lipid and protein on intestinal absorption and organ distribution of methylmercury in mice
S G Poulsen, J Nielsen & O Andersen (Odense, Denmark)

546 (P109) Comparison of evolved hydrocarbons to thiobarbituric acid-reactive substances following oxidative damage induced by *Cd* in rat tissues
D Manca, A C Ricard, B Trottier & G Chevalier (Montreal, Canada)

547 (P110) Combined effects of metal cations on calmodulin
P J S Vig & D Desaiah (Jackson, USA)

548 (P111) Is cadmium released from metallothionein in rejected human kidneys?
M Nordberg, C-G Elinder & B Palm (Stockholm, Sweden)

549 (P112) Role of renal uptake of mercury compounds
N Imura, T Tanaka & A Naganuma (Tokyo, Japan)

550 (P113) Dose related proximal tubular dysfunction in male rats chronically exposed to lead
A Vyskočil, A Bernard, V Sečnecky & R Lauwerys (Hradec Kralove, Czechoslovakia & Brussels, Belgium)

551 (P114) Sex difference of methylmercury acute toxicity in mice
A Yasutake, K Hirayama & M Inouye (Minamata & Kumamoto, Japan)

552 (P115) Sex difference in methylmercury toxicity in rats : involvement of biotransformation
K Hirayama, A Yasutake, M Inouye, Y Kajiwara & I Suda (Kumamoto & Minamata, Japan)

553 (P116) Cerebral and cerebellar lesions in mice following a single oral dose of methylmercury
M Inouye, Y Kajiwara, A Yasutake & K Hirayama (Minamata & Kumamoto, Japan)

554 (P117) Intestinal absorption of dietary nickel : influence of beverages
G D Nielsen, P J Jorgensen & P Grandjean (Odense, Denmark)

555 (P118) On the role of mitochondria in *Cd*$^{++}$ toxicity in hepatocytes
P Richelmi, F Mirabelli, G Bellomo & F Berte (Pavia, Italy)

556 (P119) Trace element changes in heart transplant recipients treated with cyclosporin
E Sabbioni, R Pietra, M M Vasconi, M Tonini & L Manzo (Milan, Ispra & Pavia, Italy)

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HEAVY METALS (cont)

Abstract

557 (P120) Calmodulin modulation of adverse effects of Cd^{2+} on microtubules
I-N Chou & B A Perrino (Boston, USA)

558 (P121) Chromium and vascular prostacyclin production
G Togna & L Caprino (Rome, Italy)

559 (P122) Toxicological impact of lead on public health
A K Tripathy (New Delhi, India)

560 (P123) The content of lead in dental calculus as indicator of lead-loading of workers
W Schunk & M Schafer (Erfurt, GDR)

561 (P124) Inhibitor effect of cysteine on mercury and copper ions induced haemolysis in the red cells
C M Mateo (Valladolid, Spain)

562 (P125) Effects of some heavy metals on drug metabolism: differences after prenatal and postnatal treatment
T Stoytchev & M Kadiiska (Sofia, Bulgaria)

PESTICIDES (Abstracts 563-590)

Chairmen: L L Smith (Macclesfield, UK) and J K Kodama (Richmond, USA)

Posters will be displayed in the Hewison Hall. The Discussion Group will be held in the Edinburgh Room, Metropole Hotel

563 (P126) Effectiveness of charcoal to adsorb carbamate insecticides *in vitro*
H Tsoukali-Papadopoulou, B Nathanael, D Padelidou & M Timouris (Thessaloniki, Greece)

564 (P127) Study of the enzymatic changes (SGPT, SGOT, LDH) in cases of paraquat poisoning
E Dimitriades, P Epivatianos & V Nathanael (Salonika, Greece)

565 (P128) Effects of taurine on acute intoxication of paraquat in beagles
R Nagata, K Izumi, T Moriya, J Yamashita, T Hirokane, T Nagata, Y Sawada, M Ishibashi & T Fukuda (Kagoshima, Japan)

566 (P129) Toxicological study on paraquat: pathological findings in beagles following a single administration
T Nagata, R Nagata, H Fujimura, K Okazaki, I Kono, S Arai, T Masaoka & F Akahori (Sagamihara & Kagoshima, Japan)

567 (P130) Mammalian cholinesterase inhibition by acephate insecticide. An overview
J K Kodama, L C Griffis & Z A Wong (Richmond, USA)

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